



Schottky Bridge Rectifiers

FEATURES

- Schottky technology
- Ideal for automated placement
- High surge current capability
- Moisture sensitivity level: level 1, per J-STD-020
- Compliant to RoHS Directive 2011/65/EU and in accordance to WEEE 2002/96/EC
- Halogen-free according to IEC 61249-2-21 definition
- AEC-Q101 qualified



- General purpose use in ac-to-dc bridge full wave rectification for LED bulb , also suitable for telecommunication



Case: Molded plastic body

Molding compound, UL flammability classification rating 94V-0 Packing code with suffix "G" means green compound (halogen-free) **Terminal:** Matte tin plated leads, solderable per JESD22-B102

Meet JESD 201 class 2 whisker test **Polarity:** Polarity as marked on the body

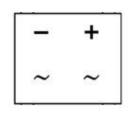
Weight: 0.09g (approximately)

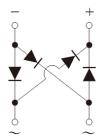


ABS









PARAMETER		SYMBOL	SBS34	SBS36	UNIT
Maximum repetitive peak reverse voltage		V_{RRM}	40	60	V
Maximum RMS voltage		V_{RMS}	28	42	V
Maximum DC blocking voltage		V _{DC}	40	60	V
Maximum average forward rectified current		I _{F(AV)}	3		Α
Peak forward surge current, 8.3 ms single half sine-wave superimposed on rated load		I _{FSM}	80		А
Maximum instantaneous forward voltage (No I_F = 3 A	ote 1)	V _F	0.50	0.70	V
Maximum DC reverse current T _{.I} =25°C			0.5		
at rated DC blocking voltage (Note 2)	T _J =100°C	I _R	10	-	mA
	T _J =125°C		-	10	
Rating for fusing (t<8.3ms)		l ² t	26		A ² s
Typical thermal resistance		R _{θJL}	41		°C/W
		$R_{\theta JA}$	83		
Operating junction temperature range (Note 3)		TJ	- 55 to +125	- 55 to +150	°C
Storage temperature range		T _{STG}	- 55 to +150		°C

Note 1: Pulse test with PW=300 µs, 1% duty cycle

Note 2: Pulse Test with PW=40ms

Note 3: $\frac{dPtot}{dTj} < \frac{1}{Rth(j-a)}$ Condition to avoid thermal runaway based on the application thermal conduction, δ =0.5



ORDERING INFORMATION				
PART NO.	PACKING CODE	PACKING CODE	PACKAGE	PACKING
		SUFFIX		
SBS3x	RE	G	ABS	1,000 / 7" Plastic reel
(Note 1, 2)	RG	G	ABS	5,000 / 13" Paper reel

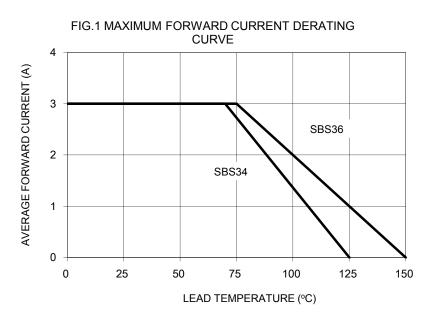
Note 1: "x" defines voltage from 40V (SBS34) to 60V (SBS36)

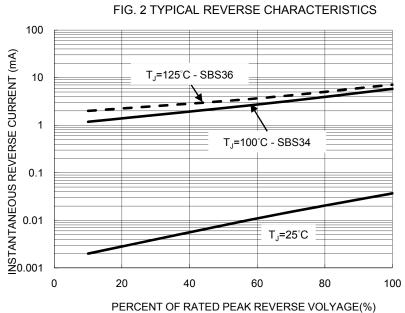
Note 2: Whole series with green compound

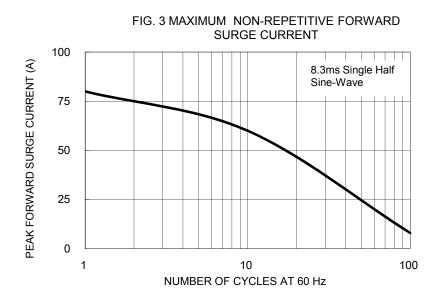
EXAMPLE				
PREFERRED PART NO.	PART NO.	PACKING CODE	PACKING CODE SUFFIX	DESCRIPTION
SBS36 REG	SBS36	RE	G	AEC-Q101 qualified Green compound

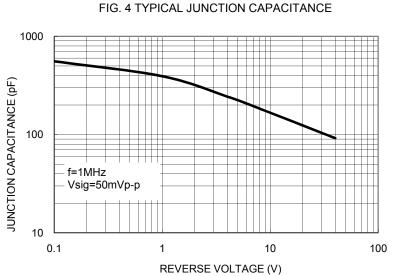
RATINGS AND CHARACTERISTICS CURVES

(T_A=25°C unless otherwise noted)

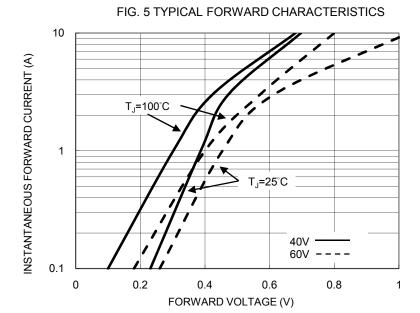






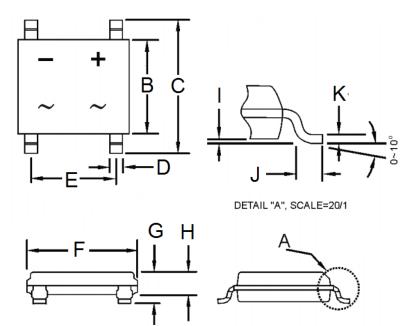






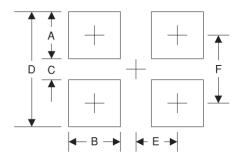
PACKAGE OUTLINE DIMENSIONS

ABS



DIM.	Unit	(mm)	Unit (inch)	
DIIVI.	Min	Max	Min	Max
В	4.30	4.50	0.169	0.177
С	6.25	6.65	0.246	0.262
D	0.60	0.70	0.024	0.028
E	3.90	4.10	0.154	0.161
F	4.90	5.10	0.193	0.200
G	1.40	1.60	0.055	0.063
Н	1.35	1.45	0.053	0.057
I	0.05	0.15	0.002	0.006
J	0.30	0.70	0.012	0.028
K	0.15	0.25	0.006	0.010

SUGGESTED PAD LAYOUT



Symbol	Unit (mm)	Unit (inch)
Α	1.5	0.059
В	0.9	0.035
С	4.22	0.166
D	7.22	0.284
E	2.05	0.081
F	5.72	0.225

MARKING DIAGRAM



P/N = Specific Device Code

YW = Date Code

F = Factory Code



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